Application No.: 10/647,518 Docket No.: M1071.1856

AMENDMENTS TO THE CLAIMS

- 1. 7. (canceled)
- 8. (currently amended) A dielectric resonator, comprising:
- a dielectric ceramic comprising:

a major component which contains a rare earth element (Re), Al, Sr, and Ti as metal elements, wherein a composition formula of the major component is expressed by a molar ratio of aRe_2O_3 - bAl_2O_3 - cSrO - $dTiO_2$ in which a, b, c, and d satisfy the following formula;

$$0.113 \le a \le 0.172$$
,
 $0.111 \le b \le 0.171$,
 $0.322 \le c \le 0.388$,
 $0.323 \le d \le 0.396$, and
 $a + b + c + d = 1.000$; and

a sub-component which contains 0.01 to 2 parts by weight of Fe as an element on the basis of Fe₂O₃, with respect to 100 parts by weight of the major component;

a metallic case within which the dielectric ceramic is arranged; and a support within the metallic case for supporting the dielectric ceramic.

- 9. 10. (canceled)
- 11. (original) The dielectric resonator according to Claim 8, wherein the dielectric resonator is a TE018 mode dielectric resonator.
- 12. (original) The dielectric resonator according to Claim 8, wherein the dielectric ceramic includes a through-hole, an inner conductor formed in the through-hole, and an outer conductor formed on at least a portion of a periphery of the dielectric ceramic.

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13. (original) The dielectric resonator according to Claim 8, wherein the dielectric resonator is a TEM mode dielectric resonator.

- 14. (currently amended) The dielectric resonator according to Claim 8, wherein the dielectric ceramic has a dielectric constant of at least 30, a Q x f value of at least 40,000 GHz, and an absolute value of a temperature coefficient of a resonant frequency within less than 30 ppm/°C.
- 15. (original) The dielectric resonator according to Claim 8, wherein the rare earth element (Re) comprises La.
- 16. (original) The dielectric resonator according to Claim 8, wherein the rare earth element (Re) comprises La and at least one other rare earth elements.
- 17. (original) A dielectric filter comprising the dielectric resonator defined in Claim 8 and an external coupling means coupled to the dielectric ceramic.
- 18. (original) The dielectric filter according to Claim 17, wherein the external coupling means include an input terminal coupled to the dielectric ceramic; and an output terminal coupled to the dielectric ceramic.
- 19. (original) A dielectric duplexer comprising at least two dielectric filters, inputoutput connecting means connected to the dielectric filters, respectively, and an antennaconnecting means connected to both of the dielectric filters, at least one of the dielectric filters being the dielectric filter defined in Claim 17.

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20. (original) A communication device comprising the dielectric duplexer defined in Claim 19, a transmission circuit connected to at least one of the input-output connecting means, a reception circuit connected to a different one of the input-output connecting means that the transmission circuit is connected, and an antenna connected to the antenna-connecting means.